

WHAT IS CLAIMED IS:

1. An information processing system including first and second devices,

wherein said first device comprises transmission
5 means for transmitting one request which designates a plurality of data storage areas to said second device,
said second device comprises completion notifying means for notifying said first device of completion of a data communication for one of the plurality of data
10 storage areas, and

in accordance with the notification of completion of the data communication for one of the plurality of data storage areas, said transmission means transmits one request which designates a data storage area, a
15 data communication for which is not complete, and a new data storage area for the data storage area, the data communication for which is complete, to said second device.

2. A communication method between two devices,
20 comprising:

a transmission step of transmitting one request which designates a plurality of data storage areas;

a completion notifying step of notifying completion when a data communication for one of the
25 plurality of data storage areas designated by the request is complete; and

a transmission step of, in accordance with the notification of completion of the data communication for one of the plurality of data storage areas, transmitting one request which designates a data storage area, a data communication for which is not complete, and a new data storage area for the data storage area, the data communication for which is complete.

3. The method according to claim 2, wherein the two devices are connected via a communication control bus complying with IEEE1394.

4. The method according to claim 2, wherein the transmission step includes a step of transmitting a request block which contains a plurality of pieces of identification information respectively indicating the plurality of data storage areas, and commands respectively for the plurality of data storage areas.

5. The method according to claim 2, further comprising a data communication step of writing data on the data storage area designated by the request or reading data from the data storage area designated by the request.

6. An information processing apparatus which can communicate with another device, comprising:
a transmission unit that transmits one request which designates a plurality of data storage areas;

a unit that receives, from the other device, a completion message indicating completion of a data communication for one of the plurality of data storage areas; and

5 a unit that transmits, on the basis of the completion message, one request which designates a data storage area, a data communication for which is not complete, and a new data storage area for the data storage area, the data communication for which is
10 complete.

7. The apparatus according to claim 6, wherein said transmission unit transmits a request block which contain a plurality of pieces of identification information respectively indicating the plurality of
15 data storage areas, and commands respectively for the plurality of data storage areas.

8. An information processing apparatus which can communicate with another device, comprising:

a unit that receives one request which designates
20 a plurality of data storage areas; and

a completion notifying unit that notifies completion of a data communication for one of the plurality of data storage areas.

9. The apparatus according to claim 8, further
25 comprising data communication unit that transmits data to the other device so as to write data in the data storage area designated by the request or receiving

data from the other device so as to read data from the data storage area designated by the request.

10. The apparatus according to claim 9, wherein when data is written in one of the plurality of data storage areas or data is read out from the data storage area, said completion notifying unit notifies completion of a data communication for that data storage area.

11. The apparatus according to claim 1, further comprising a determination unit that determines on the basis of a plurality of pieces of identification information respectively indicating the plurality of data storage areas whether or not a data buffer has been designated by the previously received request.

12. A communication method in an information processing apparatus which can communicate with another device, comprising:

transmitting one request which designates a plurality of data storage areas to the other device;

receiving, from the other device, a completion message indicating completion of a data communication for one of the plurality of data storage areas; and

transmitting, on the basis of the completion message, one request which designates a data storage area, a data communication for which is not complete, and a new data storage area for the data storage area, the data communication for which is complete.

13. A communication method in an information processing apparatus which can communicate with another device, comprising:

receiving, from the other device, one request
5 which designates a plurality of data storage areas;
making a data communication for one of the plurality of data storage areas; and

notifying the other device of completion of a data communication for one of the plurality of data
10 storage areas.